



Image \$1732

PTO/SB/21 (08-03)

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TRANSMITTAL FORM (to be used for all correspondence after initial filing)	Application Number	10/046,594	
	Filing Date	October 29, 2001	
	First Named Inventor	Stephen Y. Chou	
	Art Unit	1732	
	Examiner Name	Mathieu D. Vargot	
Total Number of Pages in This Submission		Attorney Docket Number	U6090-3

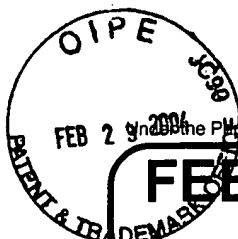
ENCLOSURES (check all that apply)		
<input checked="" type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> After Allowance communication to Group
<input type="checkbox"/> Fee Attached	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
<input type="checkbox"/> Amendment / Reply	<input type="checkbox"/> Petition	<input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief)
<input type="checkbox"/> After Final	<input type="checkbox"/> Petition to Convert a Provisional Application	<input type="checkbox"/> Proprietary Information
<input type="checkbox"/> Affidavits/declaration(s)	<input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence	<input type="checkbox"/> Status Letter
<input type="checkbox"/> Extension of Time Request	<input type="checkbox"/> Terminal Disclaimer	<input checked="" type="checkbox"/> Other Enclosure(s) (please identify below):
<input type="checkbox"/> Express Abandonment Request	<input type="checkbox"/> Request for Refund	PTO-1449 - 6 sheets 20 References Post Card
<input checked="" type="checkbox"/> Information Disclosure Statement	<input type="checkbox"/> CD, Number of CD(s) _____	
<input type="checkbox"/> Certified Copy of Priority Document(s)	Remarks	
<input type="checkbox"/> Response to Missing Parts/ Incomplete Application		
<input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT	
Firm or Individual name	GLEN E. BOOKS LOWENSTEIN SANDLER PC 65 LIVINGSTON AVENUE, ROSELAND, NJ 07068
Signature	<i>Glenn E Books</i>
Date	FEBRUARY 19, 2004

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I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the			
Typed or printed name	KELLY BILLINGSLEY		
Signature	<i>Kelly Billingsley</i>	Date	FEBRUARY 19, 2004

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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FEE TRANSMITTAL for FY 2003

Effective 01/01/2003. Patent fees are subject to annual revision.

☐ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$) \$180.00

Complete if Known

Application Number 10/046,594
Filing Date OCTOBER 29, 2001
First Named Inventor STEPHEN Y. CHOU
Examiner Name MATHIEU D. VARGOT
Art Unit 1732
Attorney Docket No. U6090-3

METHOD OF PAYMENT (check all that apply)

☐ Check ☐ Credit card ☐ Money Order ☐ Other ☐ None

☒ Deposit Account:

Deposit
Account
Number

501358

Deposit
Account
Name

LOWENSTEIN SANDLER PC

The Director is authorized to: (check all that apply)

☒ Charge fee(s) indicated below ☒ Credit any overpayments

☒ Charge any additional fee(s) during the pendency of this application

☐ Charge fee(s) indicated below, except for the filing fee
to the above-identified deposit account.

FEE CALCULATION

1. BASIC FILING FEE

Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
1001	750	2001	375	Utility filing fee	
1002	330	2002	165	Design filing	
1003	520	2003	260	Plant filing fee	
1004	750	2004	375	Reissue filing	
1005	160	2005	80	Provisional filing fee	
SUBTOTAL (1)					(\$)

2. EXTRA CLAIM FEES FOR UTILITY AND

Total Claims		Extra Claims		Fee from below		Fee Paid
		-20** =	0	X		0.00
Independent Claims		-3** =	0	X		0.00
Multiple Dependent						

Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
1202	18	2202	9	Claims in excess of 20	
1201	84	2201	42	Independent claims in excess of 3	
1203	280	2203	140	Multiple dependent claim, if not paid	
1204	84	2204	42	** Reissue independent claims over original patent	
1205	18	2205	9	** Reissue claims in excess of 20 and over original patent	
SUBTOTAL (2)					(\$) \$0.00

**or number previously paid, if greater; For Reissues, see above

FEE CALCULATION (continued)

3. ADDITIONAL FEES

Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
1051	130	2051	65	Surcharge - late filing fee or oath	
1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet	
1053	130	1053	130	Non - English specification	
1812	2,520	1812	2,520	For filing a request for <i>ex parte</i> reexamination	
1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action	
1805	1,840*	1805	1,840*	Requesting publication of SIR after Examiner action	
1251	110	2251	55	Extension for reply within first month	
1252	410	2252	205	Extension for reply within second month	
1253	930	2253	465	Extension for reply within third month	
1254	1,450	2254	725	Extension for reply within fourth month	
1255	1,970	2255	985	Extension for reply within fifth month	
1401	320	2401	160	Notice of Appeal	
1402	320	2402	160	Filing a brief in support of an appeal	
1403	280	2403	140	Request for oral hearing	
1451	1,510	1451	1,510	Petition to institute a public use proceeding	
1452	110	2452	55	Petition to revive - unavoidable	
1453	1,300	2453	650	Petition to revive - unintentional	
1501	1,300	2501	650	Utility issue fee (or reissue)	
1502	470	2502	235	Design issue fee	
1503	630	2503	315	Plant issue fee	
1460	130	1460	130	Petitions to the Commissioner	
1807	50	1807	50	Processing fee under 37 CFR § 1.17(q)	
1806	180	1806	180	Submission of Information Disclosure Statement	180.00
8021	40	8021	40	Recording each patent assignment per property (times number of properties)	
1809	750	2809	375	Filing a submission after final rejection (37 CFR § 1.129(a))	
1810	750	2810	375	For each additional invention to be examined (37 CFR § 1.129(b))	
1801	750	2801	375	Request for Continued Examination (RCE)	
1802	900	1802	900	Request for expedited examination of a design application	
Other fee (specify)					

*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$) \$180.00

SUBMITTED BY

Name (Print/Type)		Registration No. (Attorney/Agent)		Telephone	
GLEN E. BOOKS		24,950		973-597-2500	
Signature		Date		FEBRUARY 19, 2004	
<i>Glen E. Books</i>					

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This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:)
Stephen Y. Chou) Examiner: Mathieu D. Vargot
Application No.: 10/046,594) Group Art Unit: 1732
Filed: October 29, 2001)
For: IMPROVED RELEASE SURFACES,)
PARTICULARLY FOR USE IN)
NANOIMPRINT LITHOGRAPHY) February 19, 2004

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

In compliance with the duty of disclosure under 37 C.F.R. § 1.56 and in accordance with the practice under 37 C.F.R. §§ 1.97 and 1.98, the Examiner's attention is directed to the documents listed on the enclosed PTO-1449. It is respectfully requested that the PTO-1449 form be initialed and returned, indicating that the cited references have been considered.

I hereby certify that this correspondence is being deposited with the United States Postal Service as first-class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on

February 19, 2004

(Date of Deposit)

02/26/2004 SZEWDIE1 00000093 501358 10046594

01 FC:1806 180.00 DA

Kelly Billingsley

(Name)

Kelly Billingsley
Signature

February 19, 2004
Date of Signature

FEES

The Commissioner is authorized to charge \$180.00 to Deposit Account 501358 to cover the required Information Disclosure Statement fee under 37 C.F.R. 1.17(p).

CONCLUSION

Applicant's undersigned attorney may be reached by telephone at (973) 597-2500.

All correspondence should continue to be directed to our address listed below.

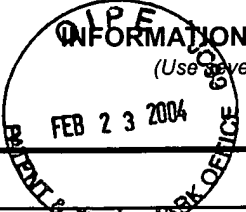
Respectfully submitted,



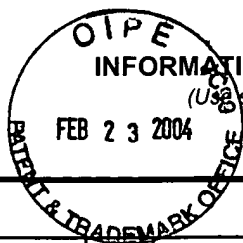
GLEN E. BOOKS, ESQ.

Registration No. 24,950

DOCKET ADMINISTRATOR
Lowenstein Sandler PC
65 Livingston Avenue
Roseland, NJ 07068
973-597-6162

				ATTY DOCKET NO. U6090-3		SERIAL NO. 10/046,594	
				Stephen Y. Chou			
				FILING October 29, 2001		GROUP 1732	
U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		5,425,848	06/20/95	Haisma et al.			
		5,503,963	04/02/96	Bifano			
		4,543,225	09/24/85	Beaujean			
		5,434,107	07/18/95	Paranjpe			
		5,338,396	08/16/94	Abdala et al.			
		5,471,455	11/28/95	Jabr			
		4,287,235	09/01/81	Flanders			
		4,512,848	04/23/85	Deckman et al.			
		5,259,926	11/09/93	Kuwabara et al.			
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
			Kamins, T.I., "Positioning of Self-Assembled, single-crystal, germanium islands by silicon nanoimprinting" Applied Physics Letter, Vol. 74, No. 12, March 22, 1999				
			Wang, J., et al., "Fabrication of a new broadband waveguide polarizer with a double-layer 190 nm period metal-gratings using nanoimprint lithography" J. Vac. Sci. Technol. B 17 (6) Nov/Dec 1999.				
EXAMINER				DATE CONSIDERED			

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



ATTY DOCKET NO. U6090-3		SERIAL NO. 10/046,594
Stephen Y. Chou		
FILING October 29, 2001	GROUP 1732	

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FOREIGN PATENT DOCUMENTS

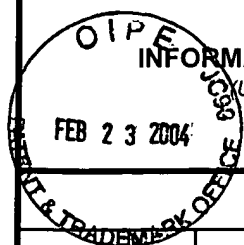
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

			Tan, H., et al., "Roller Nanoimprint Lithography" Vac. Sci. Technol. B 16 (6) Nov/Dec 1998.
			Feynman, Richard, "There's Plenty of Room at the Bottom-An Invitation to Enter a New Field of Physics" talk delivered at the annual meeting of the American Physical Society at the California Institute of Technology (Caltech) in 1959, published in February 1960 issue of Caltech's "Engineering and Science".

EXAMINER	DATE CONSIDERED
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**INFORMATION DISCLOSURE CITATION***(Use several sheets if necessary)*ATTY DOCKET NO.
U6090-3SERIAL NO.
10/046,594

Stephen Y. Chou

FILING
October 29, 2001GROUP
1732**U.S. PATENT DOCUMENTS**

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO

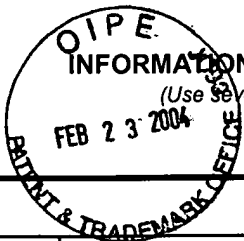
OTHER DOCUMENTS *(Including Author, Title, Date, Pertinent Pages, Etc.)*

			Flanders, D.C., "X-ray Lithography at ~ 100 A linewidths using x-ray masks fabricated by shadowing techniques" Journal of Vacuum Science and Technology, 16 (6), Nov/Dec 1979 (received 11 June 1979), pages 1615 to 1619, published American Vacuum Society, USA.
			Jorritsma et al., "Fabrication of large arrays of metallic nanowires on V-grooved substrates" Applied Physics Letters 67 (10), 4 September 1995 (received 16 May 1995), pp. 1489-1491, published by American Institute of Physics, USA.

EXAMINER

DATE CONSIDERED

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Stephen Y. Chou		
FILING October 29, 2001	GROUP 1732	

U.S. PATENT DOCUMENTS

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FOREIGN PATENT DOCUMENTS

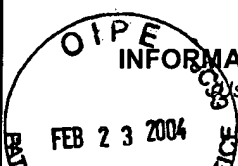
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

		Aumiller et al., "Submicrometer Resolution Replication of Relief Patterns for Integrated Optics", J. Appl. Phys., Vol. 45, pp. 4557-4562, (1974)
		Nisper, "Injection-molded replication of binary optic structures", SPIE v2600 Oct 23-24, 1995 p. 56-64 0227-786X

EXAMINER	DATE CONSIDERED
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 <p style="text-align: center;">INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)</p>	ATTY DOCKET NO. U6090-3	SERIAL NO. 10/046,594
	Stephen Y. Chou	
	FILING October 29, 2001	GROUP 1732

U.S. PATENT DOCUMENTS

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FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

			Shvartsman, "Holographic optical elements by dry photopolymer embossing" SPIE (1991) 1461 (pract. Holog. S) pp. 313-320
			"Fabrication of submicron crossed square wave gratings by dry etching and thermoplastic replication techniques" JVST B Vol. 1, No. 4, Dec 1983 pp. 1207-1210

EXAMINER	DATE CONSIDERED
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